

Message Text

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ORIGIN COME-00

INFO OCT-01 EA-09 IO-13 ISO-00 EB-08 OES-06 /037 R

DRAFTED BY COMM/NOAA/EM6:JGIRAYTYS
APPROVED BY O/SCT;JPTREVITHICK
COMM/NOAA/IA:NEJOHNSON
EA/IMS:WSSHEPARD

-----010558 078001 /13

R 281936Z FEB 77
FM SECSTATE WASHDC
TO AMEMBASSY SINGAPORE
INFO USMISSION GENEVA

UNCLAS STATE 043954

E.O. 11652: N/A

TAGS: TPHY, WMO

SUBJECT: METEOROLOGICAL DATA FROM AIRCRAFT

THE PURPOSE OF THIS CABLE IS TO GIVE YOU BACKGROUND
INFORMATION ON POSSIBLE COOPERATION BETWEEN THE U.S.
AND THE GOVERNMENT OF SINGAPORE ON A PROGRAM TO COLLECT
METEOROLOGICAL INFORMATION FROM AIRCRAFT OF SINGAPORE
INTERNATIONAL AIRLINES. THE PROGRAM IS CALLED AIRCRAFT
TO SATELLITE DATA RELAY (ASDAR) .

WIDE-BODIED JETS OF THE B-747 AND DC-10 CLASSES CARRY
INERTIAL NAVIGATION SYSTEMS AND DATA ACQUISITION UNITS
WHICH PROVIDE ENGINEERING AND ENVIRONMENTAL DATA TO THE
FLIGHT CREW. THE ASDAR CONSISTS OF AN ELECTRONICS
PACKAGE ABOARD THE AIRCRAFT WHICH TAPS INTO THESE DATA
AND RELAYS CERTAIN OF THEM TO A GEOSYNCHRONOUS METEOROLO-
GICAL SATELLITE. BOTH THE GOES AND SMS SATELLITES
OPERATED BY THE U.S. CAN RELAY ASDAR DATA. DURING THE
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FIRST GARP GLOBAL EXPERIMENT (FGGE) (FALL 1978 -
DECEMBER 1979), JAPAN AND THE EUROPEAN SPACE AGENCY
WILL ALSO OPERATE SATELLITES WHICH WILL BE ABLE TO RELAY
ASDAR DATA. THE GEOSYNCHRONOUS SATELLITE RELAYS
THE DATA TO A GROUND CONTROL STATION. FROM THERE, THE
DATA ARE SENT TO A NATIONAL METEOROLOGICAL CENTER FOR
DISSEMINATION OVER GLOBAL, METEOROLOGICAL TELECOMMUNICATIONS

SYSTEMS. THE ENTIRE PROCESS IS HANDLED AUTOMATICALLY. THE DATA OBTAINED CONSIST OF LOCATION, PRESSURE ALTITUDE, AIR TEMPERATURE, AND WIND SPEED AND DIRECTION.

THE ADVANTAGES OF ASDAR OVER PRESENT MANUALLY OBTAINED REPORTS FROM AIR CREWS ARE (1) THE FLIGHT CREW IS RELIEVED OF THIS TASK, (2) THE REPORTS ARE OBTAINED MORE FREQUENTLY (EACH 7 1/2 MINUTES), (3) THE REPORTS ARE AVAILABLE WITHIN MINUTES AS OPPOSED TO CURRENT DELAYS OF 12 HOURS OR MORE AND (4) GROUND OPERATORS ARE RELIEVED OF THE TASK OF HANDLING THE REPORTS .

A PROTOTYPE ASDAR IS FLYING ON A PAN AMERICAN AIRLINES B-747 (CLIPPER ARCTIC) AS PART OF A ONE YEAR EVALUATION PROGRAM. THROUGH THE WORLD METEOROLOGICAL ORGANIZATION (WMO), AND THE METEOROLOGICAL SERVICES OF THE PARTICIPATING COUNTRIES, THE U.S. IS ARRANGING FOR AN INTERNATIONAL TEST AND EVALUATION PROGRAM. THE COUNTRIES AND AIRLINES CONTACTED TO DATE ARE: NETHERLANDS (KLM), SWEDEN (SAS), SWITZERLAND (SWISSAIR), AND AUSTRALIA (QANTAS) . THE KLM UNIT WILL LIKELY BE INSTALLED DURING MARCH 1977.

A GOAL OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION; (NOAA) IS TO MAKE ASDAR A PART OF THE GLOBAL OBSERVING SYSTEM FOR THE WORLD WEATHER WATCH (WWW) . THE WWW IS A WMO PROGRAM WHICH WAS ENDORSED BY THE U.S. THROUGH SENATE CONCURRENT RESOLUTION 67 IN MAY, 1968 . UNCLASSIFIED

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TO FURTHER THAT GOAL, REPRESENTATIVES OF BOTH THE WMO (G. WEISS - WWW DEPARTMENT) AND NOAA (R. FLEMING - FGGE PROGRAM OFFICE) HAVE DISCUSSED INFORMALLY WITH PEOPLE IN SINGAPORE, THEIR POSSIBLE USE OF ASDAR UNITS. THOSE CONTACTED IN SINGAPORE WERE: DR. K. RAJENDRAM OF THE METEOROLOGICAL OFFICE, AND MR. CHANG SING SHEE OF SINGAPORE INTERNATIONAL AIRLINES. THE REACTION OF BOTH RAJENDRAM AND SING SHEE WAS FAVORABLE.

THE INTENTION OF THE U.S. IS TO OFFER ASSISTANCE TO SINGAPORE THROUGH A U.S. CONTRIBUTION TO THE VOLUNTARY ASSISTANCE PROGRAM (VAP). THE TOTAL AMOUNT AVAILABLE WOULD BE \$125K WHICH WOULD PURCHASE 4 OR 5 ASDAR UNITS AND PAY FOR THEIR INSTALLATION ON B-747 AIRCRAFT OPERATED BY SIA. THESE UNITS WOULD BE AVAILABLE DURING THE SUMMER, 1978. IN THE NEXT TWO OR THREE WEEKS, THE U.S. WILL LIKELY SUGGEST TO SINGAPORE THAT WE WOULD FAVORABLY CONSIDER A REQUEST FOR VAP ASSISTANCE, SHOULD THE REQUEST BE FORWARDED THROUGH THE WMO.

NOAA WOULD APPRECIATE ANY COMMENTS YOU MIGHT HAVE ON THIS
PROGRAM WITH SINGAPORE AND WILL KEEP YOU ADVISED OF THEIR
PROGRESS.
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Message Attributes

Automatic Decaptioning: X
Capture Date: 01-Jan-1994 12:00:00 am
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: COMMERCIAL AIRCRAFT, METEOROLOGICAL DATA, INTERGOVERNMENTAL COOPERATION
Control Number: n/a
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Decaption Note:
Disposition Action: n/a
Disposition Approved on Date:
Disposition Case Number: n/a
Disposition Comment:
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Disposition Event:
Disposition History: n/a
Disposition Reason:
Disposition Remarks:
Document Number: 1977STATE043954
Document Source: CORE
Document Unique ID: 00
Drafter: JGIRAYTYS
Enclosure: n/a
Executive Order: N/A
Errors: N/A
Expiration:
Film Number: D770069-0661
Format: TEL
From: STATE
Handling Restrictions: n/a
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ISecure: 1
Legacy Key: link1977/newtext/t1977022/aaaaaboh.tel
Line Count: 121
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Litigation History:
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Office: ORIGIN COME
Original Classification: UNCLASSIFIED
Original Handling Restrictions: n/a
Original Previous Classification: n/a
Original Previous Handling Restrictions: n/a
Page Count: 3
Previous Channel Indicators: n/a
Previous Classification: n/a
Previous Handling Restrictions: n/a
Reference: n/a
Retention: 0
Review Action: RELEASED, APPROVED
Review Content Flags:
Review Date: 28-Oct-2004 12:00:00 am
Review Event:
Review Exemptions: n/a
Review Media Identifier:
Review Release Date: n/a
Review Release Event: n/a
Review Transfer Date:
Review Withdrawn Fields: n/a
SAS ID: 3259357
Secure: OPEN
Status: NATIVE
Subject: METEOROLOGICAL DATA FROM AIRCRAFT THE PURPOSE OF THIS CABLE IS TO GIVE YOU BACKGROUND INFORMATION ON POSSIBLE COOPERATION BETWEEN THE U.
TAGS: TPHY, US, SN, WMO
To: SINGAPORE
Type: TE
vdkgvkey: odbcr://SAS/SAS.dbo.SAS_Docs/c6d760c3-c288-dd11-92da-001cc4696bcc
Review Markings:
Margaret P. Grafeld
Declassified/Released
US Department of State
EO Systematic Review
22 May 2009
Markings: Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 22 May 2009